

5. Remove the wing nut (**Figure 3**) securing the battery holder and cover. Remove the battery cover.

6. Disconnect the red battery wire at the main fuse (**Figure 4**).

7. Leave the battery wires connected to the battery and connect a 0-15 DC voltmeter between the battery terminals (**Figure 5**).

8. At the main fuse connect a 0-10 DC ammeter to each end of the red wires as shown in **Figure 5**.

NOTE

During the test, if the needle of the ammeter reads in the opposite direction on the scale, reverse the polarity of the test leads.

9. Start the engine with the recoil starter and let it idle. Increase engine speed to 5,000 rpm. At this engine speed the meters should read 4.5 amps and 14 volts. If the charging current is considerably lower than specified, check the alternator and/or the regulator. Less likely is the possibility that the voltage is too high; in that case the voltage regulator is probably at fault.

10. Test the separate charging system components as described under the appropriate headings in this chapter.

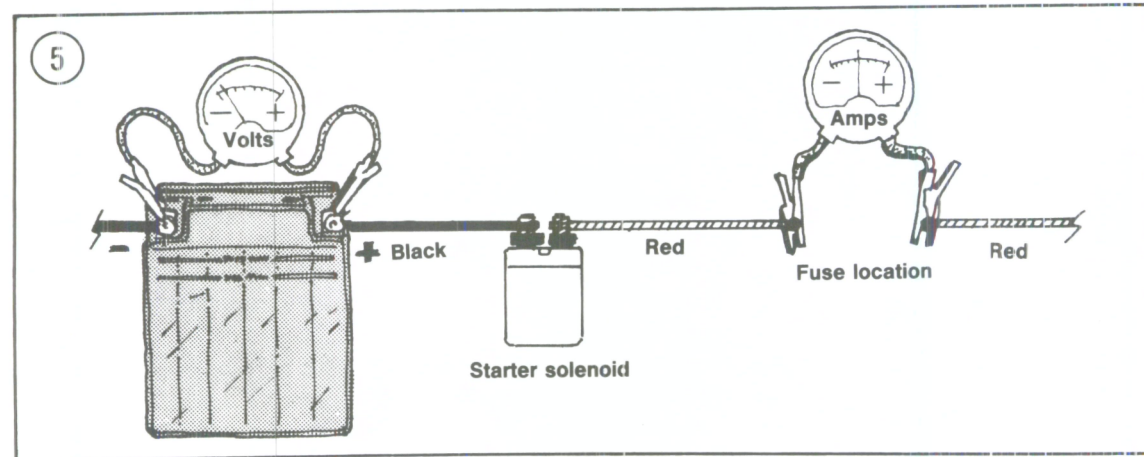
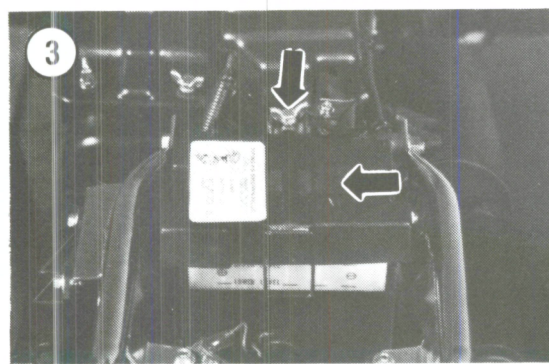
11. After the test is completed, disconnect the voltmeter and ammeter.

12. Reconnect the red battery wire at the main fuse.

13. Install all items removed.

ALTERNATOR

The alternator is a form of electrical generator in which a magnetized field called a rotor revolves within a set of stationary coils called a stator. As the rotor revolves, alternating current is induced in the stator. The current is then rectified and used to



operate the electrical accessories on the ATC and to charge the battery (on models so equipped). The rotor is permanently magnetized.

There are 4 different alternators used among the different models. Some have an outer rotor and others have an inner rotor. The stator coils of the outer rotor type are either attached to the engine or to the alternator cover.

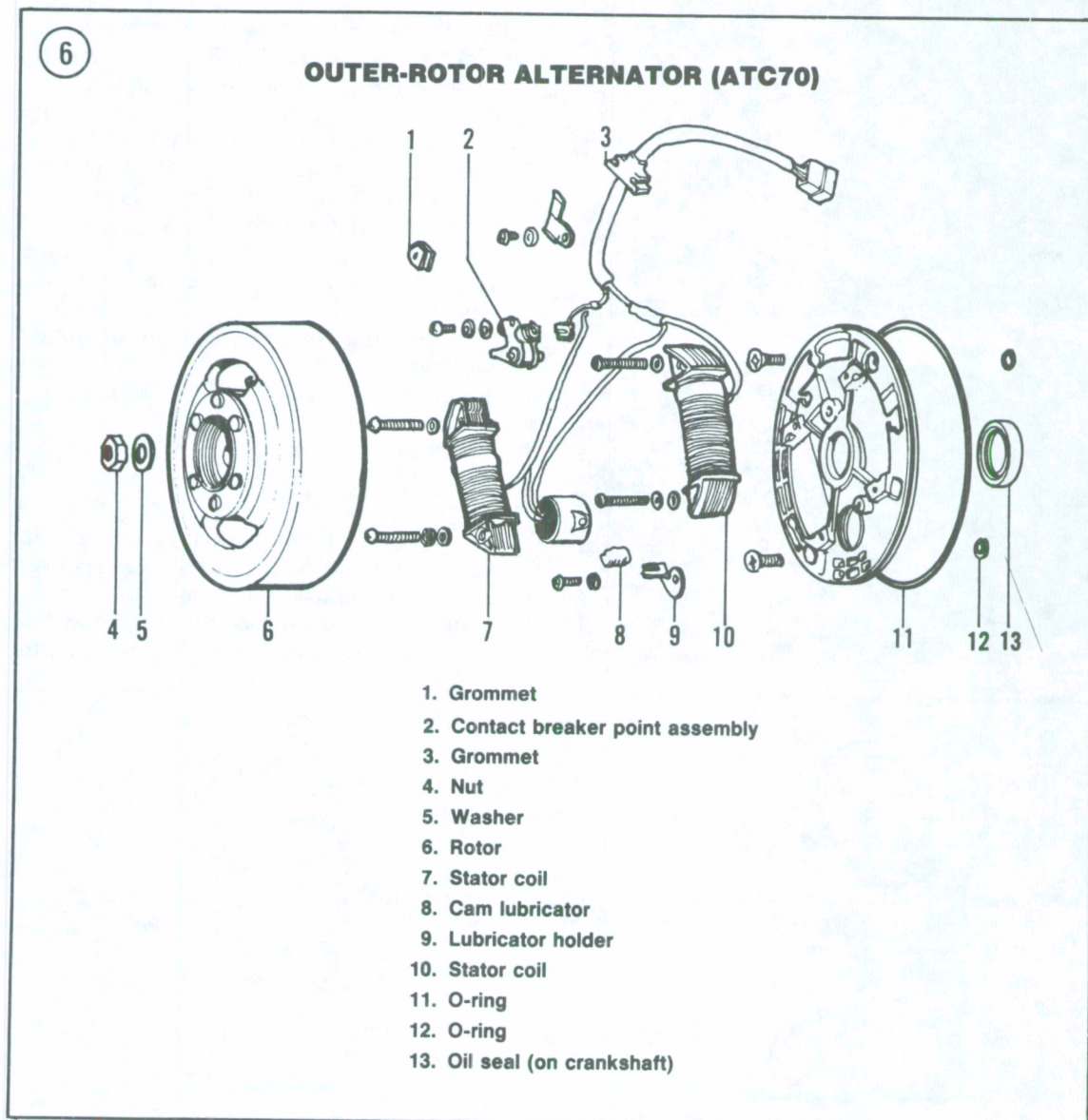
ALTERNATOR (OUTER ROTOR TYPE)

The outer rotor type alternators used among the various models are shown in the following illustrations:

- a. ATC70—Figure 6.
- b. 1981-on ATC110—Figure 7.
- c. ATC125M—Figure 8.

Rotor Removal/Installation (All ATC70, 1981-on ATC110)

The following procedure represents a typical outer rotor removal and installation. Minor variations exist among the different models and years. Pay particular attention to the location of washers, rubber grommets, electrical connectors, etc. Make sure they are installed or attached in the correct location.



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